

METHOD FOR CUTTING UNDERSEA PIPELINE TO LENGTHABSTRACT OF THE INVENTION

According to one aspect of the invention, in an offshore pipeline laying system, the A pipeline being laid on the seabed by a surface laying vessel from a first position on the seabed to a second position on the seabed with a connector on the pipeline at [[said]] the second position for making a connection to a subsea structure, and presenting at a length depth L between the seabed and the laying vessel, a method for establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed, comprises the steps of installing A [[a]] first seabed transponder is installed on the pipelay route centreline centerline at the second position; installing a second seabed transponder is installed on the pipeline route centerline spaced upstream from the first transponder at a distance D3 greater than L; establishing the positions of the first and second seabed transponders so as are located to determine the [[exact]] distance separating [[said]] the first and second seabed transponders; attaching a first pipe transponder is attached on the pipeline and laying the pipeline is laid at the first position so that it will land close to the second seabed transponder; interrogating the second seabed transponder and the first pipe transponder in a relative mode are located to establish the [[exact]] distance between them; comparing the established distance is compared with the distance separating the first and second seabed transponders to calculate the remaining length of pipeline required to reach the second position; cutting the pipeline according to said remaining length; welding the connector to the pipeline; and thereby laying the pipeline to the second position with the connector being at the second position. According to another aspect of the invention, in an offshore pipeline laying system, the pipeline being laid on the seabed by a surface laying vessel from a first position on the seabed to a second position on the seabed a method for establishing the length of pipeline required to be provided from the vessel to reach the second position on the seabed, comprises the steps of installing a plurality of seabed transponders along the pipelay route; installing at least one pipe transponder on said pipeline; and interrogating said seabed and pipe transponders, wherein the seabed transponders are arranged sufficiently near the pipelay route centreline so that respective distances separating corresponding pairs of said seabed and pipe transponders can be used to establish the remaining length of pipeline needed to reach the second position.

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A pipeline is laid from a first position to a second position with a connector at the second position for connection to a subsea structure, at a depth L. A first seabed transponder is installed on the centerline at the second position; a second seabed transponder is installed on the centerline upstream from the first transponder at a distance D3 greater than L; the first and second seabed transponders are located to determine the distance separating the first and second seabed transponders; a first pipe transponder is attached on the pipeline and the pipeline is laid at the first position so that it will land close to the second seabed transponder; the second seabed transponder and the first pipe transponder are located to establish the distance between them; the distance is compared with the distance separating the first and second seabed transponders to calculate the remaining length of pipeline required to reach the second position.